

STATEWIDE CRITICAL REQUIREMENTS - FISCAL YEAR 2012/2013

Quality Assessment Category Number 10A Bridge Structures - General Concrete

1. Does the CEI staff confirm that the following requirements are adhered to: temperature restrictions for mixing and placing concrete when very hot or very cold, requirements for keeping concrete warm when cold and for retarding when hot, and for monitoring mass concrete: temperature gradient, maximum core temperature, temperature control mechanisms must not be removed until the core temperature is within 50 degrees F of the ambient temperature? When required, is there documentation to substantiate that these requirements were met and does a field visit verify this? [Spec. 346-3 and 346-8]
2. Does the CEI staff confirm that the following concrete placement concerns are complied with: conditions where continuous rails of bolsters are or are not permitted to be in direct contact with forms, moisture evaporation rate monitored properly, no lumps and balls with some exceptions, vibrations from adjacent equipment or operations must be controlled, and Burlap-polyethylene sheeting is required to have a minimum weight of 9 ounces/square yard?. Is there documentation to substantiate that these requirements were met and does a field visit verify this? [Spec. 400-7]
3. Does the CEI staff verify that forms for footings placed in open water are water tight, that the form floor is no wetter than damp and that water removal pumps are properly sized and have proper backup just prior to concrete placement? Is there documentation to substantiate that these requirements were met and does a field visit verify this? [Spec. 400-5 and 7]
4. Inspect concrete surfaces as soon as surfaces are fully visible after casting, between 7 and 31 days after the component has been burdened with full dead load, and a minimum of 7 days after the bridge has been opened to full unrestricted traffic. Inspect underwater components in accordance with CPAM 10.6. Is there documentation to substantiate that these requirements were met and does a field visit verify this? [Spec. 400-21]
5. Does the CEI staff confirm that the Contractor reported how the Class V Coating spread rate will be determined and is the rate verified during application? If the rate is not verified during application, is the minimum coating thickness verified? Is there documentation to substantiate that these requirements were met and does a field visit verify this? [Spec. 400-15, Good Practice]